

1 (Amended). A method to test a communications system (200) comprising a plurality of emitters (205), receivers (210) and channels (220), with a set of data, each data comprising at least one emitter and receiver identifiers, said method comprising the steps of:

for each data in said set of data:

assigning a connection identifier value to said data according to the emitter and receiver identifiers of said data (445);

computing the CRC bits on said data (420);

associating said computed CRC bits and said connection identifier value with said data (440);

transmitting said data, said computed CRC bits and said connection identifier value to said communication system;

processing said transmitted data, computer CRC bits and connection identifier value in said communication system to pass on said data, said computed CRC bits and said connection identifier value to a corresponding receiver;

extracting data (445), CRC bits (465) and connection identifier value (460);

computing CRC bits on said extracted data (475); and

comparing said extracted CRC bits and said CRC bits computed on said extracted data (475),

wherein a transmission error is detected if said extracted CRC bits and said CRC bits computed on said extracted data are different.

2(Original). The method of Claim 1 wherein said step of associating said computed CRC bits and said connection identifier value to said data includes formatting a frame comprising said computer CRC bits, said connection identifier and said data.

3 Canceled.

4 Canceled

5 Canceled

6 (Original). The method of Claim 1 wherein said step of computing CRC bits on said data comprises the steps of:

processing said data according to the process applied by said communication system on said transmitted data; and
computing CRC bits on said processed data.

7 (Original). The method of Claim 1 wherein the steps of assigning a connection identifier value, computing CRC bits and assigning said computed CRC bits and said connection identifier value to said data, for each data of said set of data, are executed before testing of said communication system.

8 (Original). The method of Claim 1 further comprising the steps of stopping the test of said communication system and forewarning the user when a transmission error is detected.

9 Canceled

10 (Amended). A computer ~~computer-like~~ readable medium comprising instructions for carrying which, when executing on a computer system, carry out the method according to any one of Claims Claim 1 to-8.

11 Canceled